

WHAT IS CLAIMED IS:

1. A battery charger for a mobile phone, comprising:
a first slot having an opening at front and top parts thereof and surrounded
by a first inside wall and a first battery pack supporting surface; and
5 a second slot having an opening at front and top parts thereof, wherein the
front part of the opening of the second slot faces the opening of the first slot, and
the second slot is surrounded by a second inside wall and a second battery pack
supporting surface.
2. The battery charger as set forth in claim 1, wherein the first slot is larger
10 than the second slot.
3. The battery charger as set forth in claim 1, wherein the first inside wall
has an interfacing connector for electrically connecting to the mobile phone.
4. The battery charger as set forth in claim 1, wherein the second battery
pack supporting surface is a planar surface, and has a charging terminal thereon.
- 15 5. The battery charger as set forth in claim 4, wherein the charging terminal
comes into contact with a terminal formed at a back surface of a battery pack when
the battery pack is received on the second battery pack-supporting surface.
6. The battery charger as set forth in claim 1, wherein a first space is
provided between a battery pack received in the first slot and a reserve battery pack
20 received in the second slot, so that the battery packs received in the first and

second slots are physically separated from each other when the battery packs are received in the first and second slots, respectively.

7. The battery charger as set forth in claim 1, wherein the first slot has a plurality of fixing protrusions and the second slot has a main lock to fix and release
5 battery packs to and from the first and second slots, respectively.

8. The battery charger as set forth in claim 7, wherein the fixing protrusions are formed at both upper end portions of the first inside wall for combining with fixing grooves formed on a body of the mobile phone when the interfacing connector formed at a lower portion of the first inside wall comes into contact with
10 an electrical connection terminal of the mobile phone.

9. The battery charger as set forth in claim 7, wherein the battery charger further includes:

a sub-lock with a combining groove, which is provided at a lower portion of the second inside wall and combined with a combining protrusion formed at a
15 lower end portion of a reserve battery pack when the reserve battery pack is received in the second battery pack supporting surface; wherein the main lock is provided at an upper portion of the second battery pack supporting surface of the battery charger and combines with a locking groove at an upper portion of the reserve battery pack when the reserve battery pack arrives at the second battery
20 supporting surface, thereby binding the battery pack to the battery charger, and a coil spring is provided in the main lock for providing a restoring force to the main-lock so that the main lock moves toward the locking groove of the reserve battery pack.

10. The battery pack as set forth in claim 9, wherein the main lock further has a second space in which the main lock operates to release the reserve battery pack from the second battery pack supporting surface of the battery charger.